

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                       | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 292  | 137/601.01.ccl.s   | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2009/01/15 16:32 |
| S1    | 1    | 10/566495  | US-PPGUB; USPAT                           | OR               | OFF     | 2008/05/29 11:13 |
| S2    | 362  | 137/487.5.ccl.s and (pressure near4 chamber)   | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2008/05/29 12:46 |
| S3    | 181  | 137/487.5.ccl.s and (pressure near4 chamber) with control  | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2008/05/29 12:46 |
| S4    | 22   | 137/487.5.ccl.s and (((pressure near4 chamber) with control) same exhaust)   | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2008/05/29 12:47 |
| S5    | 2    | 137/487.5.ccl.s and (((pressure near4 chamber) with control) same (exhaust near3 (pump or vacuum)))                      | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2008/05/29 12:48 |
| S6    | 3    | 137/487.5.ccl.s and ((chamber near5 control\$4) same (exhaust near3 (pump or vacuum)))                                   | US-PPGUB; USPAT; USOOR; EPO; JPO; DERWENT | OR               | OFF     | 2008/05/29 12:50 |
| S7    | 8    | ("4872355"   "5452613"   "5791369"   "5816285"   "5865205"   "5911238"   "6119710"   "6450200").PN. OR ("6711956").URRN. | US-PPGUB; USPAT; USOOR                    | OR               | OFF     | 2008/05/29 12:50 |

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| S8  | 28  | (“2336968”   “3985467”   “4172477”   “4181161”   “4259038”   “4699570”   “4934399”   “5039280”   “5340295”   “5433238”   “5719609”).PN. OR (“5944049”).URPN.             | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>12:51 |
| S9  | 32  | (S7 or S8) and (vacuum or pump)  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>12:52 |
| S10 | 187 | (pressure near2 chamber) with (supply near2 (two or multip(\$5)))  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:21 |
| S11 | 72  | ((pressure near2 chamber) with (supply near2 (two or multip(\$5)))) same (control)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:22 |
| S12 | 497 | ((137/599.04,599.05,599.07,601.14).cols.   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:45 |
| S13 | 171 | ((137/599.04,599.05,599.07,601.14).cols. and parallel  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:50 |
| S14 | 3   | ((137/599.04,599.05,599.07,601.14).cols. and parallel and (differ\$4 near3 capaci\$4)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:54 |
| S15 | 25  | (“4725040”   “4944276”   “4995369”   “5050568”   “5054455”   “5060621”   “5069188”   “5083546”   “5103794”   “5115785”   “5117797”   “5199456”).PN. OR (“5289811”).URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>13:56 |
| S16 | 48  | ((137/599.04,599.05,599.07,601.14).cols. and parallel and ((high with low) or (fast with slow)))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:59 |

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| S17 | 40  | (137/599.04,599.05,599.07,601.14).ccls. and parallel and (control\$4 same ((high with low) or (fast with slow)))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>13:59 |
| S18 | 26  | ("20030041135"   "5062446"   "5263369"   "5660207"   "5765283"   "5805442"   "5850850"   "5911238"   "5944048"   "6061603"   "6119047"   "6151625"   "6192281"   "6216726"   "6321272"   "6332348"   "6333272"   "6343617"   "6370448"   "6450190"   "6539968"   "6619258"   "6640140").PN. OR ("6810308").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:04 |
| S19 | 1   | "6178995".pn.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:22 |
| S20 | 26  | ("20030041135"   "5062446"   "5263369"   "5660207"   "5765283"   "5805442"   "5850850"   "5911238"   "5944048"   "6061603"   "6119047"   "6151625"   "6192281"   "6216726"   "6321272"   "6332348"   "6333272"   "6343617"   "6370448"   "6450190"   "6539968"   "6619258"   "6640140").PN. OR ("6810308").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:48 |
| S21 | 0   | S20 and (differ4\$ near3 rate\$2)  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:48 |
| S22 | 0   | S20 and (differ4\$ near3 flow\$4)  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:48 |
| S23 | 0   | S20 and (differ4\$ near3 flow\$5)  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>14:49 |
| S24 | 35  | (137/599.01,599.02,599.03,599.04,599.05,599.07).ccls. and vacuum   | US-PGPUB;<br>USPAT                                    | OR | OFF | 2008/05/29<br>15:44 |
| S25 | 19  | ("3067761"   "3247866"   "3905394"   "3908686"   "4229157"   "4425930"   "4478246"   "4518011"   "4585161"   "5653220").PN. OR ("5938425").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>15:51 |
| S26 | 2   | S25 and vacuum   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>15:51 |
| S27 | 257 | (137/599.01-601.21).ccls. and vacuum   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>15:54 |
| S28 | 24  | (137/599.01-601.21).ccls. and vacuum and semiconductor   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>15:54 |
| S29 | 1   | "6712084".pn.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>15:58 |

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| S30 | 30 | (["4285245"   "5062446"   "5201581"   "5660207"   "5684245"   "5765283"   "5805442"   "5850850"   "5911238"   "5925829"   "5944048"   "5975126"   "6061603"   "6151625"   "6247495"   "6321272"   "6332348"   "6333272"   "6343617"   "6450200"   "6640140"),PN, OR ("6712084"),URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 15:59 |
| S31 | 10 | S30 and vacuum  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:00 |
| S32 | 45 | (["4369031"   "501398"   "5134965"   "5415728"   "5522934"   "5614055"   "5736457"   "5772771"   "5911834"   "6013155"   "6042687"   "6058729"   "6068729"   "6083569"   "6125859"   "6190233"),PN, OR ("6333272"),URPN.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:09 |
| S33 | 30 | S32 and vacuum  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:10 |
| S34 | 0  | "11381160",pn.  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:24 |
| S35 | 0  | "11/381160",pn.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:25 |
| S36 | 1  | "11/381160"   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:25 |
| S37 | 70 | (["3396955"   "3917238"   "4098923"   "4100310"   "4138306"   "4217375"),PN, OR ("4369031"),URPN.   | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:46 |
| S38 | 40 | S37 and vacuum  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 16:46 |
| S39 | 73 | (["1927972"   "2592304"   "2803261"   "2842159"   "2868225"   "2899973"   "2918933"   "3053272"   "3138174"   "3194254"   "3237616"   "3312241"   "3605788"   "3703913"   "3741476"   "3742972"   "3766933"   "3806027"   "3820556"   "3853143"   "3862644"   "3900045"   "3978883"   "3995656"   "4039124"   "4092998"   "4194526"   "4215627"   "4250914"   "4250915"   "4428529"   "4431020"   "4508140"   "4528898"   "4592385"   "4706553"   "4732190"   "4739924"   "4768543"   "4773311"   "4791956"   "4791957"   "4796660"   "4799511"   "4873873"   "4893551"   "4942921"   "4979527"   "5000221"   "5005636"   "5240455"   "5251685"   "5255710"   "5304093"),PN, OR ("5664600"),URPN. | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 17:02 |
| S40 | 11 | S39 and vacuum  | US-PGPUB; USPAT; USOCR | OR | OFF | 2008/05/29 17:02 |

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| S41 | 30   | S33 and vacuum   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:05 |
| S42 | 19   | ("3067761"   "3247886"   "3905394"   "3908686"   "4229157"   "4425930"   "4478246"   "4518011"   "4585161"   "5653220").PN. OR ("5938425").URPN. | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:14 |
| S43 | 2    | S42 and vacuum   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:15 |
| S44 | 17   | ((137/599.01-601.21).cls. and vacuum and parallel and (control\$4 same ((high with low) or (fast with slow))))                                   | US-PPGUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>17:17 |
| S45 | 22   | ((137/599.01-601.21).cls. and vacuum and parallel and (((high with low) or (fast with slow))))   | US-PPGUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>17:20 |
| S46 | 5    | S45 not S44  | US-PPGUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT | OR | OFF | 2008/05/29<br>17:20 |
| S47 | 24   | S28 not (I1-145)   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:22 |
| S48 | 5007 | ((137/599.01-601.21).cls. not (I1-145))  | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:22 |
| S49 | 257  | ((137/599.01-601.21).cls. and vacuum not (I1-145))   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:23 |
| S50 | 14   | ((137/599.01-601.21).cls. and vacuum not (I1-145) and (mass near3 flow near3 control \$4))   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:25 |
| S51 | 3    | ((137/599.01-601.21).cls. and vacuum and additive)   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:36 |
| S52 | 70   | ("3396955"   "3917238"   "4098923"   "4100310"   "4138306"   "4217375").PN. OR ("4369031").URPN.   | US-PPGUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2008/05/29<br>17:40 |

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| S53 | 47 | (["20020042205"   "2676603"   "4065250"   "4345610"   "4369031"   "4949670"   "5013398"   "5134965"   "5415728"   "5453124"   "5522934"   "5614055"   "5662143"   "5702530"   "5736457"   "5772771"   "5865205"   "5911834"   "5916369"   "5951772"   "5997950"   "6012474"   "6013155"   "6042687"   "6068729"   "6083569"   "6125859"   "6162323"   "6190233"   "6210482"   "6217659"   "6217937"   "6287980"   "6294026"   "6321782"   "6333272"   "6360762"   "6389364"   "6418954"   "6422264"   "6508913"   "6532978"   "6581623"   "6631334"),PN,OR,("6941965"),URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>17:52 |
| S54 | 11 | (["5633212"   "5911238"   "6093662"),PN,OR,("6422264"),URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>17:56 |
| S55 | 47 | (["20020042205"   "2676603"   "4065250"   "4345610"   "4369031"   "4949670"   "5013398"   "5134965"   "5415728"   "5453124"   "5522934"   "5614055"   "5662143"   "5702530"   "5736457"   "5772771"   "5865205"   "5911834"   "5916369"   "5951772"   "5997950"   "6012474"   "6013155"   "6042687"   "6068729"   "6083569"   "6125859"   "6162323"   "6190233"   "6210482"   "6217659"   "6217937"   "6287980"   "6294026"   "6321782"   "6333272"   "6360762"   "6389364"   "6418954"   "6422264"   "6508913"   "6532978"   "6581623"   "6631334"),PN,OR,("6941965"),URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>17:59 |
| S56 | 23 | (["4798166"   "4987856"   "5133284"   "5425842"   "5505778"   "5580822"),PN,OR,("5951772"),URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>18:04 |
| S57 | 45 | (S53 or S55 or S56) and vacuum   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>18:05 |
| S58 | 1  | "6752166",pn.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/29<br>19:14 |
| S59 | 1  | (137/599.01-601.21).cds. and ((mass near3 flow near3 control\$4) with sequen\$4 with (operate or operating or operation))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:24 |
| S60 | 1  | (137/599.01-601.21).cds. not (137/599.03-599.04).cds. and ((mass near3 flow near3 control\$4) with sequen\$4 with (operate or operating or operation))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:26 |
| S61 | 17 | (137/599.01-601.21).cds. not (137/599.03-599.04).cds. and ((flow near3 control\$4) with sequen\$4 with (operate or operating or operation))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:27 |
| S62 | 5  | (137/599.01-601.21).cds. not (137/599.03-599.04).cds. and ((flow near3 control\$4) with (consecutiv\$4 or serial\$4 or succeeding\$4) with (operate or operating or operation))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:35 |
| S63 | 24 | (137/599.01-601.21).cds. not (137/599.03-599.04).cds. and ((flow near4 control\$4) with (consecutiv\$4 or serial\$4 or succeeding\$4 or sequential\$4 or sequenc\$4) with (operate or operating or operation))   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:37 |

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|-----|----|---|------------------------------|----|-----|---------------------|
| S64 | 3  | \$63 not \$61 not \$62  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:37 |
| S65 | 0  | (137/599.01-601.21).cols. not (137/599.03-599.04).cols. and ((flow near4 control\$4) and "rising rate")   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:38 |
| S66 | 1  | (137/487.5 or 137/599.01-601.21).cols. not (137/599.03-599.04).cols. and ((flow near4 control\$4) and "rising rate")  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:39 |
| S67 | 5  | ((137/599.01-601.21).cols. not (137/599.03-599.04).cols. and (control\$4) and ((consecutive\$4 or serial\$4 or succeeding\$4 or sequential\$4 or sequenc\$4) with (rising or increasing)))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>08:41 |
| S68 | 26 | ("2999482"   "3038449"   "3726296"   "3746041"   "3937248"   "4030523"   "4313465"   "4628961"   "4768544"   "4821997"   "4858636").PN. OR ("5329965").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>09:03 |
| S69 | 0  | \$68 and ((consecutive\$4 or serial\$4 or succeeding\$4 or sequential\$4 or sequenc\$4) with (rising or increasing))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>09:04 |
| S70 | 14 | \$68 and ((consecutive\$4 or serial\$4 or succeeding\$4 or sequential\$4 or sequenc\$4))  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>09:05 |
| S71 | 24 | ((US-20070193628-\$).did. or (US-4036011-\$ or US-4369031-\$ or US-4557950-\$ or US-4726961-\$ or US-5229319-\$ or US-5289811-\$ or US-5329965-\$ or US-5664600-\$ or US-5875817-\$ or US-5938425-\$ or US-5944049-\$ or US-5951772-\$ or US-6178995-\$ or US-6333272-\$ or US-6422264-\$ or US-6711956-\$ or US-6712084-\$ or US-6752166-\$ or US-6810308-\$ or US-6916397-\$ or US-6932098-\$ or US-6941965-\$ or US-7216019-\$).did. | US-PGPUB;<br>USPAT           | OR | OFF | 2008/05/30<br>10:07 |
| S72 | 16 | S71 and vacuum  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>10:07 |
| S73 | 1  | 2002/0179148  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>11:12 |
| S74 | 1  | "6752166".pn.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>11:13 |
| S75 | 9  | 60/293356   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2008/05/30<br>11:14 |
| S76 | 15 | kannan.in. and hiroshi.in.  | US-PGPUB;<br>USPAT           | OR | OFF | 2008/05/30<br>12:03 |

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|-----|------|---|---------------------|----|-----|---------------------|
| S77 | 2140 | (137/487.5,599.01,599.02,599.03,599.04,599.06,599.07,601.14).cls. | US-PPGPUB;<br>USPAT | OR | OFF | 2009/01/13<br>17:04 |
| S78 | 2140 | S77 and pd>"20080601"   | US-PPGPUB;<br>USPAT | OR | OFF | 2009/01/13<br>17:05 |
| S79 | 45   | S77 and @pd>"20080601"  | US-PPGPUB;<br>USPAT | OR | OFF | 2009/01/13<br>17:06 |
| S80 | 8    | ("10%" and "90%" and orifice and "pressure" and control).clm.     | US-PPGPUB;<br>USPAT | OR | OFF | 2009/01/13<br>17:12 |

1/15/2009 4:38:51 PM

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